

ABSTRACT

A network switch having a hybrid switch architecture, which is scalable to increase connectivity, buffering, and bandwidth by using multiple shared-memory switch fabrics and multiple crossbar switch fabrics. Each of the crossbar switch fabrics is coupled to each of the shared-memory switch fabrics. The shared-memory switch fabrics are configured to store and retrieve packets. The crossbar switch fabrics are configured to distribute and re-collect packets to and from each of the shared-memory switch fabrics. The network switch having a hybrid switch architecture distributes packets from a crossbar switch fabric to the multiple shared-memory switch fabrics to share the distributed packets among the multiple shared-memory switch fabrics.

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